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Nov 6, 2002

DERWENT-ACC-NO: 2001-557292

DERWENT-WEEK: 200316

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TITLE: Optical recording medium with optical recording, optical recorded medium reproduction

INVENTOR: ARIOKA, H; SUZAWA, K

PATENT-ASSIGNEE: TDK CORP (DENK)

PRIORITY-DATA: 1999JP-0292844 (October 14, 1999), 1999JP-0292842 (October 14, 1999), 1999JP-0292843 (October 14, 1999)

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PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<input type="checkbox"/> CN 1378686 A	November 6, 2002		000	G11B007/0045
<input type="checkbox"/> WO 200127917 A1	April 19, 2001	J	075	G11B007/0045
<input type="checkbox"/> JP 2001184647 A	July 6, 2001		012	G11B007/0045
<input type="checkbox"/> JP 2001184648 A	July 6, 2001		015	G11B007/0045
<input type="checkbox"/> JP 2001184649 A	July 6, 2001		015	G11B007/0045
<input type="checkbox"/> EP 1235210 A1	August 28, 2002	E	000	G11B007/0045
<input type="checkbox"/> KR 2002041455 A	June 1, 2002		000	G11B007/24

DESIGNATED-STATES: CN KR AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE AL
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
CN 1378686A	October 13, 2000	2000CN-0814066	
WO 200127917A1	October 13, 2000	2000WO-JP07093	
JP2001184647A	October 13, 2000	2000JP-0312878	
JP2001184648A	October 13, 2000	2000JP-0312879	
JP2001184649A	October 13, 2000	2000JP-0312880	
EP 1235210A1	October 13, 2000	2000EP-0966450	
EP 1235210A1	October 13, 2000	2000WO-JP07093	
EP 1235210A1		WO 200127917	Based on
KR2002041455A	April 12, 2002	2002KR-0704677	

INT-CL (IPC): B41 M 5/26; G11 B 7/0045; G11 B 7/005; G11 B 7/007; G11 B 7/125; G11 B 7/24

ABSTRACTED-PUB-NO: WO 200127917A

BASIC-ABSTRACT:

NOVELTY - Virtual recording cells (40) are virtually defined in a groove (16) in a recording layer (12) of an optical recording medium (10). The application power of a laser beam is varied in five or more steps according to information to be recorded for each virtual recording cell (40), and as a result, record marks (48A to 48G) having different sizes and/or light transmittances different in five or more steps. Therefore the overall light reflectance of the virtual recording cells (40) are varied in steps, and consequently the overall reflection level of the virtual recording cells (40) including the outside of the recording marks with respect to a read laser beam used in reproduction is varied in five or more steps.

USE - Optical recording medium with optical recording, optical recorded medium reproduction

DESCRIPTION OF DRAWING(S) - Virtual recording cells 40

Groove 16

Recording layer 12

Optical recording medium 10

Record marks 48A to 48G

ABSTRACTED-PUB-NO: WO 200127917A

EQUIVALENT-ABSTRACTS:

CHOSEN-DRAWING: Dwg.1/5

DERWENT-CLASS: T03 W04

EPI-CODES: T03-B; T03-B01; T03-B02B1; W04-C; W04-C01; W04-C02A1;